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## CLEAN COPY OF SUBSTITUTE SPECIFICATION

### TITLE OF THE INVENTION

### METHOD FOR REVERSE-SIGNALLING FOR A TRANSMISSION SERVICE WHICH IS TO BE USED DURING A MOBILE TERMINATED-PSTN/ISDN ORIGINATEDCALL

### CROSS REFERENCE TO RELATED APPLICATIONS

**[0001]** This application is based on and hereby claims priority to International Application No. PCT/DE2004/002227 filed on September 30, 2004 and German Application No. 103 479 67.8 filed on October 10, 2003, the contents of which are hereby incorporated by reference.

### BACKGROUND OF THE INVENTION

**[0002]** The present invention relates to a method for backward-signaling of a transmission service which is to be used for a call which is to be set up from a telecommunication network, where the call enters a mobile radio network. When a telecommunication terminal sets up a call to another telecommunication terminal, with the called telecommunication terminal being in the service area of a mobile radio network and the calling telecommunication terminal being in the service area of another telecommunication network, it is generally possible that a transmission service which the calling telecommunication terminal requires cannot be clearly identified in the mobile radio network of the called telecommunication terminal. Accordingly, the selection of a specific transmission service is down to the called telecommunication terminal or the relevant subscriber. On the basis of the related art, the transmission service selected by the called telecommunication terminal is not transmitted to all network nodes which are involved in a call which is to be set up or in a data transmission which can be performed. In a mobile radio network, this particularly means that the access mobile switching centers involved in a call which is to be set up, such as a "Gateway MSC" (Mobile Switching Center) or a "Gateway MSC Server", which act as connecting network nodes between the mobile radio network and other telecommunication networks, receive no information about the transmission service which is actually to be used for a call entering the mobile radio network, that is to say an "MTC" (Mobile Terminated Call). Accordingly, the access mobile switching centers, such as the "Gateway MSC" and the "Gateway MSC Server", cannot execute any transmission-service-specific functions.